

A. LEA Information

1. **What is the total student enrollment based on the most recent BEDS Day submission?**

4,260

2. **What is the student enrollment by grade band based on the latest BEDS Day submission?**

	Enrollment
Grades K-2	1,070
Grades 3-5	837
Grades 6-8	841
Grades 9-12	1,212

3. **What is the name of the district administrator entering the technology plan survey data?**

Jared Heiner

4. **What is the title of the district administrator entering the technology plan survey data?**

Director of Technology

- 4a. **If the response to question four was "Other", please provide the title.**

(No Response)

B. Instructional Technology Vision and Goals

1. Please provide the district mission statement.

The Enlarged City School District of Troy will provide a strong educational and social foundation to graduate all students college and career ready.

2. Please provide the executive summary of the instructional technology plan, including vision and goals.

The Enlarged City School District of Troy is committed to providing the foundation for our students' future needs as citizens in the globally connected world of the 21st century.

A curriculum that is supported with technology can: enhance student learning, help in meeting standards and aligning curriculum, support instruction, strengthen community relations, and support organizational framework. The foundation for this curriculum is grounded in: basic skills, thinking skills, personal qualities, workplace skills, and technological competencies.

Learning standards have been adopted by each state throughout the country. These standards include the application of processes and tools for life-long learning within each content area. These goals and standards emphasize the importance of learning across areas and through life and include the utilization of: active learning, problem solving, communication, collaboration, and seeking connections, and technology.

3. Please summarize the planning process used to develop the instructional technology plan. Please include the stakeholder groups participating and outcomes of the instructional technology plan development meetings.

During the summer of the 2011-2012 school year the Troy City school district developed a brand new committee to create a new vision for the district through the development of the 2012 – 2015 district technology plan. The committee included various stakeholders - teachers, CSEA employees, principals, community members, district administrators, and board members. This committee created a brand new edition of the district's technology plan which was adopted by the board of education and brought to the district technology committee to ensure on going implementation and adherence. In September of 2013 the district opened the doors on its new state of the art middle school which was home to highly sophisticated and technology integrated classrooms. This grand opening also signaled a renaissance of technological integration into the curriculum. The district began an ongoing and continuous process of weaving technology standards into the curriculum as the curriculum guides were being updated. At the same time the district decided to move forward with a capital project and instructional technology plan that would impact all learners in the district. An updated instructional technology plan was rolled out which morphed the technology plan from a hardware and network plan into a curriculum and instruction plan that rooted technology into learning. The vision of the plan stated – All students will be propelled into the forefront of the 21st century instruction. Students will have a front seat approach to using state of the art technology in an environment that promotes global communication, collaboration, and digital skills. Troy City School district will have an environment to truly develop today's students into tomorrow's leaders. This plan, along with a proposition for an multimillion dollar capital project, was presented to the district and across the community. On October 2nd the director of technology presented the new instructional technology plan vision and prospective capital project plan to the board of education. During the month of November 2013, seven meetings were held (one at each school building) to the respective PTA's that presented the new vision and the capital project plan which included network upgrades, security upgrades, and classroom technology upgrades. At these meetings parents, community, and school members were welcome to ask questions, provide feedback, and become involved in the project. Informative posters were created and posted at the entries of every building to share the new vision and upgrade plan. The board of education and subsequently the community voted on the proposed project once again propelling the Troy City School District into a fast track for technology integration. The Director of Technology also presented the new plan across the district at every faculty meeting to all of the teachers, support staff, and administrators.

4. Please provide the source(s) of any gap between the current level of technology and the district's stated vision and goals.

Device Gap (Checked)
Professional Development (Checked)
Staffing (Checked)

4a. Please specify if "Other" was selected in question four.

(No Response)

5. Based upon your answer to question four, what are the top three challenges that are causing the gap? If you chose "No Gap Present" in question four, please enter N/A.

The ability to move to one to one device roll outs requires not only the necessary capital to purchase the remaining devices but the embedded professional development to train staff and integrate into the current grade level and subject matter curriculum. Staff are needed to ensure that teachers, support personnel, and administrators are fluent in technological performance as well as integration.

C. Technology and Infrastructure Inventory

1. What is the available network broadband bandwidth? Please express speed in Mb (Megabits) or Gb (Gigabits). *

	Minimum Capacity (Expressed in Mb or Gb)	Maximum Capacity (Expressed in Mb or Gb)
Network Bandwidth: Incoming connection TO district schools (WAN)	50Mb	100Mb
Internal Network Bandwidth: Connections BETWEEN school buildings (LAN)	1Gb	10Gb
Bandwidth: Connections WITHIN school buildings (LAN)	100mb	10Gb

2. What is the total contracted Internet access bandwidth for your district? Please express speed in Mb (Megabits) or Gb (Gigabits).

100Mb

3. What is the name of the agency or vendor that your district purchases its primary Internet access bandwidth service from?

Northeast Regional Information Center

4. Which wireless protocols are available in the district? Of these, which are currently in use? Check all that apply.

	Available/In Use
802.11a	Available (Checked)
802.11b	In Use (Checked)
802.11g	In Use (Checked)
802.11n	In Use (Checked)
802.11ac	In Use (Checked)
802.11ad	Available (Checked)
802.11af	Available (Checked)

5. Do you have wireless access points in use in the district?

Yes

- 5a. What percentage of your district's instructional space has wireless coverage?

100

6. Does the district use a wireless controller?

Yes

7. What is the port speed of the switches that are less than five years old in use in the district?

1Gb

8. How many computing devices less than five years old are in use in the district?

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	Number of devices in use that are less than five years old	How many of these devices are connected to the LAN?
Desktop computers/Virtual Machine (VM)	1,300	1,300
Laptops/Virtual Machine (VM)	350	350
Chromebooks	350	350
Tablets less than nine (9) inches with access to an external keyboard	0	0
Tablets nine (9) inches or greater with access to an external keyboard	30	30
Tablets less than nine (9) inches without access to an external keyboard	0	0
Tablets nine (9) inches or greater without access to an external keyboard	1,600	1,600
Totals:	3,630.00	3,630.00

9. Of the total number of students with disabilities in your district, what percentage of these students are provided with assistive technology as documented on their Individualized Education Programs (IEPs)?

5

10. From your technology needs assessment, please describe any additional assistance or resources that, if provided, would enhance the district's ability to provide improved access to technologies, including assistive technologies, for students with disabilities.

Financial resources to procure devices - professional development to inform sped staff on how to support SPed learners with instructional technology.

11. How many peripheral devices less than five years old are in use in the district?

	Number of devices in use that are less than five years old
Document Cameras	275
Flat Panel Displays	250
Interactive Projectors	75
Interactive Whiteboards	0
Multi-function Printers	25
Projectors	20
Scanners	0
Other Peripherals	0
Totals:	645.00

12. If a number was provided for "Other Peripherals" please specify the peripheral device(s) and quantities for each.

(No Response)

13. Does your district have an asset inventory tagging system for district-owned equipment?

Yes

14. Does the district allow students to Bring Your Own Device (BYOD)?

No

14a. On an average school day, approximately how many student devices access the district's network?

(No Response)

15. Has the school district provided for the loan of instructional computer hardware to students legally attending nonpublic schools pursuant to Education Law, section 754?

Yes

D. Software and IT Support**1. What are the operating systems in use in the district?**

	Is this system in use?
Mac OS Version 9 or earlier	No
Mac OS 10 or later	Yes
Windows XP	Yes
Windows 7.0	Yes
Windows 8.0 or greater	No
Apple iOS 7 or greater	Yes
Chrome OS	Yes
Android	Yes
Other	No

2. Please provide the name of the operating system if the response to question one included "Other."

(No Response)

3. What are the web browsers, both available and supported, for use in the district?

	Web Browsers available and supported for use
Internet Explorer 7	Yes
Internet Explorer 8	Yes
Internet Explorer 9 or greater	No
Mozilla Firefox	No
Google Chrome	Yes
Safari (Apple)	Yes
Other	No

4. Please provide the name of the web browser if the response to question three included "Other."

(No Response)

5. Please provide the name of the learning management system (LMS) most commonly used in the district.

Edmoto and Moodle (50/50)

6. Please provide the names of the five most commonly used software programs that support classroom instruction in the district.

Read 180
Reading Street
System 44
Successmaker
Discovery Learning

7. Please provide the names of the five most frequently used research databases if applicable.

NA

8. Does the district have a Parent Portal?

Yes

8a. Check all that apply to your Parent Portal if the response to question eight is "Yes."

Attendance (Checked)

Grade Reporting (Checked)

8b. If 'other' was selected in question eight (a), please specify the other feature(s).

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9. What additional technology-based strategies and tools, besides the Parent Portal, are used to increase parent involvement?

Emergency Broadcast System (Checked)

Website (Checked)

Facebook (Checked)

Twitter (Checked)

9a. Please specify if the response to question nine was "Other".

(No Response)

10. Please list title and FTE count (as of survey submission date) of all staff whose primary responsibility is technical support.

Title	Number of Current FTEs
Mobile Learning Tech	2.00
Director of Technology	1.00
	3.00

E. Curriculum and Instruction**1. What are the district's plans to use digital connectivity and technology to improve teaching and learning?**

All classrooms, from kindergarten through grade twelve, will be equipped with the latest technology available including interactive video monitors, wireless projectors, and document cameras – all to create an audio-visual environment that stimulates learning, motivates students and leads to greater levels of engagement. All faculty and students will have opportunities to participate in video conferencing and distance learning, expanding their opportunities to collaborate from across the district to across the globe. This project will also enable the district to implement a secure, multilayered wireless network that will allow for wireless connectivity inside and outside all district buildings. The district will be able to begin moving toward a 1 to 1 scenario based on the current upgrades.

It is the district's expectation that content and lessons will become video based for sharing, flipping, and blending. This will allow the district to expand instruction beyond the brick and mortar of the buildings.

2. Does the district's instructional technology plan address the needs of students with disabilities to ensure equitable access to instruction, materials, and assessments?

Yes

2a. If "Yes", please specify.

We are currently in the process of rewriting this section of our plan. The current district procedure is to provide all IEP students who have technology integrated into their plans with the necessary tools to be successful.

3. Does the district's instructional technology plan address the provision of assistive technology specifically for students with disabilities to ensure access to and participation in the general curriculum?

No

3a. If "Yes", please provide detail.

(No Response)

F. Professional Development

- 1. Please provide a summary of professional development offered to teachers and staff, for the time period covered by this plan, to support technology to enhance teaching and learning. Please include topics, audience, and method of delivery within your summary.**

The plan allows for multiple strategies for professional development. In meeting the expectations of the plan the district has already provided technology themed Superintendent conference days, district wide staff paid training days, individual group sessions, and even embedded one-on-one instruction. The topics range from the electronic student management system, e-mail training, Google apps training, mobile device and operating system training, and classroom device training and implementation. The district has begun a process by which technology concepts are embedded into the curriculum and plans are in place to begin offering online professional development to various student, staff, and community groups.

- 2. Please list title and FTE count (as of survey submission date) of all staff whose primary responsibility is technology integration training and support for teachers.**

Title	Number of Current FTEs
Director of Technology	1.00
	1.00

TROY CITY SD

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Technology Investment Plan

Status Date: 03/30/2015 10:28 AM

G. Technology Investment Plan

1. Please list the top five planned technology investments in priority order over the next three years.

	Anticipated Item or Service	Estimated Cost	Is Cost One-time or Annual	Potential Funding Source (May list more than one source per item.)
1	Desktops	600,000	One Time	General funds
2	Server/Network Software	800,000	One Time	Capital Funds
3	Wi-Fi	400,000	One Time	Capital Funds
4	Network Cabling	500,000	One Time	Capital Funds
5	Interactive Whiteboards	3,800,000	One Time	Capital Funds
Totals:		6,100,000.00		

2. If "Other" was selected in question one, please specify.

(No Response)

H. Status of Technology Initiatives and Community Connectivity

1. **Please check any developments, since your last instructional technology plan, that affect the current status of the technology initiatives.**

Technology Plan Implementation (Checked)
Developments in Technology (Checked)

- 1a. **Please specify if response to question one was other.**

(No Response)

2. **In this section, please describe how the district plans to increase student and teacher access to technology, in school, at home, and in the community.**

All classrooms, from kindergarten through grade twelve, will be equipped with the latest technology available including interactive video monitors with video conferencing capability, wireless projectors, and document cameras – all to create an audio-visual environment that stimulates learning, motivates students and leads to greater levels of engagement. Faculty and students will have opportunities to participate in video conferencing and distance learning, expanding their opportunities to collaborate from across the district to across the globe. This project will also enable the district to implement a secure, multilayered wireless network that will allow for wireless connectivity inside and outside all district buildings.

The district has been working with NERIC to create a management plan where video conferencing servers and maintenance can successfully be supported on a large 200+ device scale. It is the intention of the district to create digitized lessons that will allow for flipped instruction, blended instruction, and instruction beyond the brick and mortar of the buildings.

3. **Please check all locations where Wi-Fi service is available to students within the school district geographical boundaries.**

School (Checked)
Home (Checked)
Community (Checked)

- 3a. **Please identify categories of available Wi-Fi locations within the community.**

Religious institutions
YMCA
Libraries
Community Center
Government installations

I. Instructional Technology Plan Implementation

1. **Please provide the timeline and major milestones for the implementation of the instructional technology plan as well as the action plan to integrate technology into curriculum and instruction to improve student learning.**

The district's Capital project is currently underway and slated to be complete by September of 2015. By this date all of the district's eight buildings will be newly-cabled, all switching will be upgraded, wireless access will span the district, security measures (including cameras, panic alarms, strobe lights, and door controls) will be in place, and all 200 classrooms will have updated mx800 video conferencing / interactive video monitors. All administrative offices will be equipped with either video conferencing endpoints and or new IP phones with video integration. The district's phone cache will be upgraded so that no phone will be over 3 years old. The entire district will be upgraded to a new digital, trunked, two-way radio system that has a direct, administrative link to the City Policy department. This system will work off of the City's digital, wireless system allowing the district city wide connectivity and backups.

The remaining planning will be specific to training and professional development. The district has already offered multiple small group, one-on-one, and for pay trainings. A second for pay training will take place at the end of August. The district is in the process of hiring two technology coaches for the duration of the 2015 - 2016 school year to work with district staff to implement technology into various curricula and help develop a more technologically integrated and structured K-12 curriculum plan.

The district is also providing, for the second year, a stipend for eight building staff members to serve as building liaisons who will coordinate training and roll out in each building and be responsible for communication flow across the building and vertically within the district.

The district's technology committee is currently working on a grade level action plan to integrate technology standards as identified by ISTE. This plan will work in conjunction with the district's previous work with technology integration into the curriculum maps.

J. Monitoring and Evaluation

1. **Please describe the proposed strategies that the district will use to evaluate, at least twice a year, the effectiveness of the implementation of the district's instructional technology plan to improve teaching and learning.**

At the beginning of each year and again at the end of each school year the district's technology committee will be responsible for evaluating the effectiveness of the plan and subsequent roll outs. The instructional technology plan identifies five goals - 1) Technology will be used to facilitate learning and problem solving throughout the Enlarged City School District of Troy. 2) The District will integrate technology to align current curriculum with Common Core State Standards, ISTE, New York State Standards and other applicable standards. 3) The District will increase the availability and the use of technology to support instruction and increase student learning. 4) The District will use technology to support the organizational framework and increase its efficiency and effectiveness. and 5) The District will continue to develop and maintain an appropriate infrastructure to ensure the rapidly changing technology needs are implemented and supported.

Each of the goals are broken down into specific challenges with each one being aligned to unique evaluative tools. The district technology committee is tasked with performing the evaluations and reporting back to the Superintendent with a report and recommendations. Many of the evaluative tools are empirical and require effectiveness based on data analysis which will also be cross evaluated by the district's Data committee.

2. **Please fill in all information for the policies listed below.**

	Date of Public Forum (If applicable)	URL	Year Policy Adopted
Acceptable Use Policy -- AUP	02/04/2015	http://www.troy.k12.ny.us/2014-15_DOCS/CODE_OF_CONDUCT_2014_2015_August_28.pdf	2015
Internet Safety/Cyberbullying	02/04/2015	http://www.troy.k12.ny.us/2014-15_DOCS/CODE_OF_CONDUCT_2014_2015_August_28.pdf	2015
Parents' Bill of Rights for Data Privacy and Security	07/05/2014	http://www.troycsd.org/2014-15_DOCS/Parent%20Info/Parents_Bill%20of%20Rights_Data_Security_Troy_CSD.pdf	2014

3. **Does the district have written procedures in place regarding cybersecurity?**

No

K. Survey Feedback

Thank you for submitting your district's instructional technology plan (ITP) survey via the online collection tool. We appreciate the time and effort you have spent completing the ITP survey. Please answer the following questions to assist us in making ongoing improvements to the online survey tool.

1. Was the survey clear and easy to use

Yes

1a. If response was "No", please explain.

(No Response)

2. Was the guidance document helpful?

Yes

2a. If "No", please explain.

(No Response)

3. What question(s) would you like to add to the survey? Why?

(No Response)

4. What question(s) would you omit from the survey? Why?

(No Response)

5. Other comments.

It would be wise to take a deeper look at professional development as the training of technologies as instructional tools and their implementation into curriculum is of the greatest value. Funds to secure hardware are only as good as how devices are implemented in the classrooms.

Appendices

1. Upload additional documentation to support your submission
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